

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	1	behavior same personality same document\$1	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L4	1137	xml and (legacy same (convert\$ integrat\$)) and (internet web)	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L5	915	L4 and document\$1	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L6	362	L5 and (instruction\$1 same (processing translat\$))	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L7	344	L6 and network	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L8	139	L6 and (software with object\$1)	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L9	79	L8 and parser	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L10	4	L9 and xslt	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L11	79	L8 and parser	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L12	377	(web with server with legacy)	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L13	79	(web with server with legacy with (integrat\$ convert\$))	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L14	48	L13 and xml	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L15	1921	(document with processing with instruction\$1)	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L16	5	L15 with (incoming with document\$1)	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L17	60	xml with instruction\$1 with translat\$	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L18	5	L17 and legacy	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L19	186	(legacy with data) same internet same (convert\$ or integrat\$)	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L20	79	L19 and xml	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L21	51	L20 and translat\$	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L22	0	(US-20020107754-\$ or US-20020091818-\$ or US-20020069227-\$ or US-20020069196-\$).did. or (US-6810429-\$).did.	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13

EAST Search History

L23	0	L22 and (instruction\$1 with (selection processing))	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L24	0	(US-6810429-\$).did.	USPAT	OR	OFF	2006/07/06 21:13
L25	0	L24 and (rule\$1 instruction\$1)	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L26	12682	(document\$1 with instruction\$1)	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L27	507	((legacy with system) same (integrat\$ convert\$)) and xml	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L28	64	L27 and ((instruction\$1 rule\$1) same templat\$)	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L29	44	L28 and translat\$	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L30	40	L29 and network	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L31	30	L30 and (software with object\$1)	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L32	27	("20030037181" "20030120639" "5848426" "5870605" "5940075" "5996012" "6012098" "6016501" "6065039" "6178461" "6192370" "6226666" "6233601" "6253239" "6334146" "6336124" "6345259" "6356905" "6397232" "6401132" "6424979" "6446110" "6480860" "6513059" "6519653" "6585778" "6678715").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/06 21:13
L33	4	("6810429").URPN.	USPAT	OR	OFF	2006/07/06 21:13
L34	1	("6397232").PN.	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L35	10	("5299304" "5713014" "5911776" "5970490" "6012098" "6151608" "6236997" "6263332" "6324568" "6336124").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/06 21:13
L36	3188	xml and legacy	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L37	0	(US-20020091818-\$).did.	US-PGPUB	OR	OFF	2006/07/06 21:13
L38	0	L37 and (transform\$ translat\$) and (rule\$1 instruct\$)	US-PGPUB	OR	OFF	2006/07/06 21:13
L39	0	L38 and select\$	US-PGPUB	OR	OFF	2006/07/06 21:13
L40	0	L39 and xml	US-PGPUB	OR	OFF	2006/07/06 21:13
L41	0	L40 and object	US-PGPUB	OR	OFF	2006/07/06 21:13

EAST Search History

L42	1	(US-20020069196-\$ or US-20020069227-\$ or US-20020091818-\$ or US-20020107754-\$).did. or (US-6397232-\$ or US-6810429-\$). did.	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L43	0	L42 and pars\$	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L44	0	L37 and network	US-PGPUB	OR	OFF	2006/07/06 21:13
L45	1	(US-20020091818-\$).did.	US-PGPUB	OR	OFF	2006/07/06 21:13
L46	1	L45 and (incoming with document\$1)	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L47	1	(US-20020091818-\$).did.	US-PGPUB	OR	OFF	2006/07/06 21:13
L48	1	L47 and (rule\$1 same xml)	US-PGPUB	OR	OFF	2006/07/06 21:13
L49	5	(US-20020069196-\$ or US-20020069227-\$ or US-20020091818-\$ or US-20020107754-\$).did. or (US-6397232-\$ or US-6810429-\$). did.	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L50	0	L49 and xpath	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L51	3	xpath same legacy same document\$1	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L52	6	xpath same legacy	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L53	1	("6810429").PN.	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L54	0	L53 and xpath	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L55	157	legacy and xpath and document\$1	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L56	717	legacy same xml	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L57	76	L56 and xpath	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L58	1	(US-20020091818-\$).did.	US-PGPUB	OR	OFF	2006/07/06 21:13
L59	1	L58 and rout\$	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L60	1	L58 and format\$	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L61	1137	xml and (legacy same (convert\$ integrat\$)) and (internet web)	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L62	915	L61 and document\$1	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13

EAST Search History

L63	362	L62 and (instruction\$1 same (processing translat\$))	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L64	344	L63 and network	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L65	139	L63 and (software with object\$1)	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L66	79	L65 and parser	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L67	377	(web with server with legacy)	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L68	1921	(document with processing with instruction\$1)	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L69	186	(legacy with data) same internet same (convert\$ or integrat\$)	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L70	79	L69 and xml	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L71	0	(US-6810429-\$).did.	USPAT	OR	OFF	2006/07/06 21:13
L72	0	L71 and (rule\$1 instruction\$1)	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L73	12682	(document\$1 with instruction\$1)	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L74	507	((legacy with system) same (integrat\$ convert\$)) and xml	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L75	64	L74 and ((instruction\$1 rule\$1) same templat\$)	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L76	44	L75 and translat\$	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L77	40	L76 and network	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L78	4	("6810429").URPN.	USPAT	OR	OFF	2006/07/06 21:13
L79	3188	xml and legacy	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L80	0	(US-20020091818-\$).did.	US-PGPUB	OR	OFF	2006/07/06 21:13
L81	0	L80 and (transform\$ translat\$) and (rule\$1 instruct\$)	US-PGPUB	OR	OFF	2006/07/06 21:13
L82	0	L81 and select\$	US-PGPUB	OR	OFF	2006/07/06 21:13
L83	0	L82 and xml	US-PGPUB	OR	OFF	2006/07/06 21:13
L84	5	(US-20020069196-\$ or US-20020069227-\$ or US-20020091818-\$ or US-20020107754-\$).did. or (US-6397232-\$ or US-6810429-\$). did.	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13

EAST Search History

L85	0	L84 and xpath	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L86	1	("6810429").PN.	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L87	0	L86 and xpath	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L88	157	legacy and xpath and document\$1	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L89	717	legacy same xml	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L90	1	behavior same personality same document\$1	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L91	1	("6397232").PN.	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L92	0	(US-20020091818-\$).did.	US-PGPUB	OR	OFF	2006/07/06 21:13
L93	0	L83 and object	US-PGPUB	OR	OFF	2006/07/06 21:13
L94	0	L80 and network	US-PGPUB	OR	OFF	2006/07/06 21:13
L95	1	(US-20020091818-\$).did.	US-PGPUB	OR	OFF	2006/07/06 21:13
L96	1	L95 and (incoming with document\$1)	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L97	1	(US-20020091818-\$).did.	US-PGPUB	OR	OFF	2006/07/06 21:13
L98	1	L97 and (rule\$1 same xml)	US-PGPUB	OR	OFF	2006/07/06 21:13
L99	1	(US-20020091818-\$).did.	US-PGPUB	OR	OFF	2006/07/06 21:13
L100	1	L99 and rout\$	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L101	1	L99 and format\$	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L102	4	L66 and xslt	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L103	79	L65 and parser	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L104	79	(web with server with legacy with (integrat\$ convert\$))	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L105	48	L104 and xml	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L106	5	L68 with (incoming with document\$1)	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L107	60	xml with instruction\$1 with translat\$	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L108	5	L107 and legacy	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L109	51	L70 and translat\$	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13

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L110	0	(US-20020107754-\$ or US-20020091818-\$ or US-20020069227-\$ or US-20020069196-\$).did. or (US-6810429-\$).did.	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L111	0	L110 and (instruction\$1 with (selection processing))	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L112	30	L77 and (software with object\$1)	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L113	27	("20030037181" "20030120639" "5848426" "5870605" "5940075" "5996012" "6012098" "6016501" "6065039" "6178461" "6192370" "6226666" "6233601" "6253239" "6334146" "6336124" "6345259" "6356905" "6397232" "6401132" "6424979" "6446110" "6480860" "6513059" "6519653" "6585778" "6678715").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/06 21:13
L114	10	("5299304" "5713014" "5911776" "5970490" "6012098" "6151608" "6236997" "6263332" "6324568" "6336124").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/06 21:13
L115	1	(US-20020069196-\$ or US-20020069227-\$ or US-20020091818-\$ or US-20020107754-\$).did. or (US-6397232-\$ or US-6810429-\$). did.	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L116	0	L115 and pars\$	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L117	5	(US-20020069196-\$ or US-20020069227-\$ or US-20020091818-\$ or US-20020107754-\$).did. or (US-6397232-\$ or US-6810429-\$). did.	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L118	3	xpath same legacy same document\$1	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L119	6	xpath same legacy	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L120	76	L89 and xpath	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L121	1	(US-20020091818-\$).did.	US-PGPUB	OR	OFF	2006/07/06 21:13
L122	1	L121 and hierarch\$	US-PGPUB	OR	OFF	2006/07/06 21:13
L123	129	tree with representation with xml with document\$1	US-PGPUB	OR	OFF	2006/07/06 21:13

EAST Search History

L124	161	tree with representation with xml with document\$1	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13
L125	25	L124 and legacy	US-PGPUB; USPAT	OR	OFF	2006/07/06 21:13


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1 [Migration of legacy web applications to enterprise Java™ environments net.data® to JSP™ transformation](#)

Yu Ping, Jianguo Lu, Terence C. Lau, Kostas Kontogiannis, Tack Tong, Bo Yi

 October 2003 **Proceedings of the 2003 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

 Full text available: pdf(165.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As Web technologies advance, the porting and adaptation of existing Web applications to take advantage of the advancement has become an issue of increasing importance. Examples of such technology advancement include extensible architectural designs, more efficient caching protocols, and provision for customizable dynamic content delivery. This paper presents an experience report on the migration of legacy IBM® Net.Data® based applications to new enterprise Java

Keywords: Java 2 Enterprise Edition (J2EE™), JavaBeans, JavaServer pages, Net.Data, SQL, migration, model-view-controller (MVC), transformation

2 [Development of SNMP-XML translator and gateway for XML-based integrated network management](#)

Jeong-Hyuk Yoon, Hong-Taek Ju, James W. Hong

 July 2003 **International Journal of Network Management**, Volume 13 Issue 4

Publisher: John Wiley & Sons, Inc.

 Full text available: pdf(251.82 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The research objective of our work is to develop a SNMP MIB to XML translation algorithm and to implement an SNMP-XML gateway using this algorithm. The gateway is used to transfer management information between an XML-based manager and SNMP-based agents. SNMP is widely used for Internet management, but SNMP is insufficient to manage continuously expanding networks because of constraints in scalability and efficiency. XML based network management architectures are newly proposed as alternatives t ...

3 [Standardization in IT: Inter-organizational document exchange: facing the conversion problem with XML](#)



Luis Martín Díaz, Erik Wüstner, Peter Buxmann

 March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available:  pdf(470.62 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Information exchange processes are often characterized by the need of translating from one data format into another in order to achieve compatibility between information systems. A conversion problem often arises when exchanging files between applications of different software vendors or when incorporating legacy business data into new standard software. In this paper we want to survey the conversion problem in the field of multi-organizational networks, since participants often use different da ...

Keywords: Java, XML, conversion problem, information systems, inter-organizational document exchange, standardization, supply chain management

4 [Languages & Authoring for the Semantic Web: The Yin/Yang web: XML syntax and RDF semantics](#)



Peter Patel-Schneider, Jérôme Siméon

May 2002 **Proceedings of the 11th international conference on World Wide Web**

Publisher: ACM Press

Full text available:  pdf(162.67 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

XML is the W3C standard document format for *writing* and *exchanging* information on the Web. RDF is the W3C standard model for *describing the semantics* and *reasoning about* information on the Web. Unfortunately, RDF and XML---although very close to each other---are based on two different paradigms. We argue that in order to lead the Semantic Web to its full potential, the syntax and the semantics of information needs to work together. To this end, we develop a model-theo ...


Keywords: RDF, XML, data models, model theory, semantic web

5 [Business-to-business interactions: issues and enabling technologies](#)

B. Medjahed, B. Benatallah, A. Bouguettaya, A. H. H. Ngu, A. K. Elmagarmid

May 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(558.34 KB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business standard is an illustration of such an early adoption of the advances in computer networking. The ubiquity and the affordability of the Web has made it possible for the masses of businesses to automate their B2B interactions. However, several issu ...


Keywords: B2B Interactions, Components, E-commerce, EDI, Web services, Workflows, XML

6 [Integrating and customizing heterogeneous e-commerce applications](#)

Anat Eyal, Tova Milo

August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(286.63 KB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

A broad spectrum of electronic commerce applications is currently available on the Web, providing services in almost any area one can think of. As the number and variety of such applications grow, more business opportunities emerge for providing new services based on the integration and customization of existing applications. (Web shopping malls and support for comparative shopping are just a couple of examples.) Unfortunately, the diversity of applications in each specific domain and the dispar ...

Keywords: Application integration, Data integration, Electronic commerce

7 Vinci: a service-oriented architecture for rapid development of web applications



Rakesh Agrawal, Roberto J. Bayardo, Daniel Gruhl, Spiros Papadimitriou

April 2001 **Proceedings of the 10th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(472.82 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 Toward an engineering discipline for grammarware



Paul Klint, Ralf Lämmel, Chris Verhoef

July 2005 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,
Volume 14 Issue 3

Publisher: ACM Press

Full text available: pdf(710.42 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Grammarware comprises grammars and all grammar-dependent software. The term *grammar* is meant here in the sense of all established grammar formalisms and grammar notations including context-free grammars, class dictionaries, and XML schemas as well as some forms of tree and graph grammars. The term *grammar-dependent software* refers to all software that involves grammar knowledge in an essential manner. Archetypal examples of grammar-dependent software are parsers, program converters ...

Keywords: Grammarware, automated software engineering, best practices, generic language technology, grammar-dependent software, grammars, language processing, metamodeling, model-driven development, parsers, software evolution, software transformation

9 Technical papers: software presentation: Towards large-scale information integration



Kenneth M. Anderson, Susanne A. Sherba, William V. Lepthien

May 2002 **Proceedings of the 24th International Conference on Software Engineering**

Publisher: ACM Press

Full text available: pdf(1.46 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Software engineers confront many challenges during software development. One challenge is managing the relationships that exist between software artifacts. We refer to this task as information integration, since establishing a relationship between documents typically implies that an engineer must integrate information from each of the documents to perform a development task. In the past, we have applied open hypermedia techniques and technology to address this challenge. We now extend this work ...



10 TIGRA — an architectural style for enterprise application integration



Wolfgang Emmerich, Ernst Ellmer, Henry Fieglein

July 2001 **Proceedings of the 23rd International Conference on Software Engineering**

Publisher: IEEE Computer Society

Full text available:  [pdf\(137.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
 [Publisher Site](#)

We report on experience that we made in the Trading room InteGRation Architecture project (TIGRA) at a large German bank. TIGRA developed a distributed system architecture for integrating different financial front-office trading systems with middle- and back-office applications. We generalize the experience by proposing an architectural style that can be re-used for similar enterprise application integration tasks. The TIGRA style is based on a separation of data representation using domain-s ...

11 Supporting industrial hyperwebs: lessons in scalability

Kenneth M. Anderson

May 1999 **Proceedings of the 21st international conference on Software engineering**

Publisher: IEEE Computer Society Press

Full text available:  [pdf\(1.47 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: open hypermedia systems, scalability, software engineering

12 Industrial practice I: Jena: implementing the semantic web recommendations



Jeremy J. Carroll, Ian Dickinson, Chris Dollin, Dave Reynolds, Andy Seaborne, Kevin Wilkinson

May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters**

Publisher: ACM Press

Full text available:  [pdf\(139.86 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The new Semantic Web recommendations for RDF, RDFS and OWL have, at their heart, the RDF graph. Jena2, a second-generation RDF toolkit, is similarly centered on the RDF graph. RDFS and OWL reasoning are seen as graph-to-graph transforms, producing graphs of virtual triples. Rich APIs are provided. The Model API includes support for other aspects of the RDF recommendations, such as containers and reification. The Ontology API includes support for RDFS and OWL, including advanced OWL Full support. ...

Keywords: Jena, OWL, RDF, RDQL, semantic web

13 Education and training: An XML-based approach to multimedia software engineering for distance learning



T. Arndt, S. K. Chang, A. Guercio, P. Maresca

July 2002 **Proceedings of the 14th international conference on Software engineering and knowledge engineering SEKE '02**

Publisher: ACM Press

Full text available:  [pdf\(95.53 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Multimedia Software Engineering (MSE) is a new frontier for both Software Engineering (SE) and Visual Languages (VL). In fact multimedia software engineering can be considered as the discipline for systematic specification, design, substitution and verification of visual patterns. Visual Languages contribute to MSE such concepts as: Visual notation for software specification, design and verification flow charts, ER diagrams, Petri Nets, UML visualization, visual programming languages etc. Multim ...

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Semantic Web services

Jagadeesh Nandigam, Venkat N. Gudivada, Mrunalini Kalavala
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In this paper, we describe what Semantic Web and Web services are; discuss underlying core technologies for Web services, and list how Web services manifest in modern computing. Next we show how to build and deploy a weather web service using Micro"soft.NET technologies. To demonstrate the platform interoperability of web services technology, we show how to develop a client application (using Java technologies) to access the weather web service. To complement this demonstration, a web service fo ...

15 The BEA streaming XQuery processor

Daniela Florescu, Chris Hillery, Donald Kossmann, Paul Lucas, Fabio Riccardi, Till Westmann, J. Carey, Arvind Sundararajan


September 2004 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 13 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(328.94 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper describes the design, implementation, and performance characteristics of a commercial XQuery processing engine, the BEA streaming XQuery processor. This XQuery engine was designed to provide high performance for message-processing applications, i.e., for transforming XML data streams. The engine is a central component of the 8.1 release of BEA's WebLogic Integration (WLI) product. The BEA XQuery engine is fully compliant with the August 2002 draft of the W3C XML Query Language ...

16 Managing the software design documents with XML

 Junichi Suzuki, Yoshikazu Yamamoto


September 1998 **Proceedings of the 16th annual international conference on Computer documentation**

Publisher: ACM Press

Full text available:  pdf(1.09 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: CASE data interchange, UML, XML, software model interchange

17 XML: XVM: a bridge between xml data and its behavior

 Quanzhong Li, Michelle Y. Kim, Edward So, Steve Wood

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Publisher: ACM Press

Full text available:  pdf(377.35 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

XML has become one of the core technologies for contemporary business applications, especially web-based applications. To facilitate processing of diverse XML data, we propose an extensible, integrated XML processing architecture, the XML Virtual Machine (XVM), which connects XML data with their behaviors. At the same time, the XVM is also a framework for developing and deploying XML-based applications. Using component-based techniques, the XVM supports arbitrary granularity and provides a high ...

Keywords: XML, XML applications, XML processing, XVM, components, web applications

18 An XML framework for agent-based E-commerce

Robert J. Glushko, Jay M. Tenenbaum, Bart Meltzer



March 1999 **Communications of the ACM**, Volume 42 Issue 3

Publisher: ACM Press

Full text available: pdf(277.43 KB)

html(33.22 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

19 Web engineering: validation: Relaxed: on the way towards true validation of compound documents



Jirka Kosek, Petr Nálevka

May 2006 **Proceedings of the 15th international conference on World Wide Web WWW '06**

Publisher: ACM Press

Full text available: pdf(373.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

To maintain interoperability in the Web environment it is necessary to comply with Web standards. Current specifications of HTML and XHTML languages define conformance conditions both in specification prose and in a formalized way utilizing DTD. Unfortunately DTD is a very limited schema language and can not express many constraints that are specified in the free text parts of the specification. This means that a page which validates against DTD is not necessarily conforming to the specification ...

Keywords: RELAX NG, Schematron, XHTML, XML, compound documents, validation

20 Poster session 2: Tool integration using the web-services approach



J. D. Togni, R. P. Ribas, M. L. B. Lisboa, A. I. Reis

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Publisher: ACM Press

Full text available: pdf(424.66 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper proposes a protocol for data exchange to allow the communication of specialized tools with Electronic Design Automation (EDA) frameworks. The BICO (Basic type CONversor) protocol is based on SOAP, a Web-Service technology. The aim of BICO is to support interoperability, integration and cooperation between scripting and general-purpose languages, with minimum programming effort. The BICO protocol is able to automatically encode and decode data structures used as parameters of requests a ...

Keywords: interoperability, script languages

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